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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/514,579	02/28/2000	Sun Chung Chen	EM/CHEN/5412	8455

7590 09/04/2002

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EXAMINER

FAROOQ, MOHAMMAD O

ART UNIT	PAPER NUMBER
2182	3

DATE MAILED: 09/04/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/514,579	CHEN, SUN CHUNG
	Examiner	Art Unit
	Mohammad O. Farooq	2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 28 February 2000.

2a) This action is **FINAL**.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-14 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1,9-11,13 and 14 is/are rejected.

7) Claim(s) 2-8 and 12 is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____	6) <input type="checkbox"/> Other: _____

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 9-11, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ho U.S. Pat. No. 6,118,496 in view of Sartore et al. U.S. Pat. No. 6,012,103.
2. As to claim 1, Ho teaches electronic device comprising:
  - a trigger signal generator having an output to be connected with an input of the control signal generator, and having a switch to output a trigger signal to the control signal generator when a user enables the switch (col. 2, lines 46-57);
  - the control signal generator having an input to be connected with an output of the trigger signal generator, and having an output to be connected with an input of the connector, for receiving the trigger signal, then outputting a control signal to the connector (col. 2, lines 46-57).

Ho does not teach universal serial bus (USB) interface with electronic devices. Sartore et al. teach USB interface with electronic devices (fig. 2). However, it would

have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Ho and Sartore et al. because that would provide a single standardized connection system making the system more reliable and easier to operate than other communications systems.

3. As to claims 9-11, 13 and 14, neither Ho nor Sartore et al. teach a display, light emitting diodes, enable signal generator, power supply and a diode. However, it is well known in the art of computer communication to have a display, light emitting diodes, enable signal generator, power supply and a diode. Therefore, neither Ho nor Sartore et al. need to specifically show a display, light emitting diodes, enable signal generator, power supply and a diode since one skilled in the art at the time of invention is presumed to know something about the art apart from what the reference literally disclose. Note *In re Jacoby*, 309 F.2d 513, 135 USPQ 317 (CCPA 1962). It is also well settled that obviousness may be concluded from common knowledge and common sense of the person skilled in the art without a specific hint or suggestion. *In re Bozek*, 416 F.2d 1385, 163 USPQ 545 (CCPA 1969).

#### ***Allowable Subject Matter***

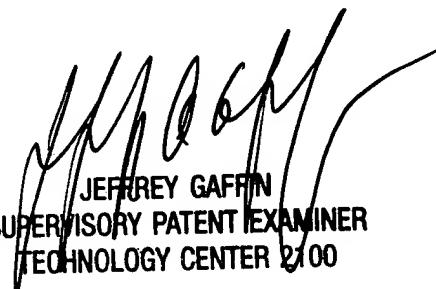
4. Claims 2-8 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad O. Farooq whose telephone number is (703) 305-3888. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin can be reached on (703) 308-3301. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7239 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.



JEFFREY GAFFIN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

Mohammad O. Farooq  
August 23, 2002